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1 [Specification and verification of an object request broker](#)

Grégory Duval

April 1998 **Proceedings of the 20th international conference on Software engineering**

Publisher: IEEE Computer Society

Full text available: [pdf\(912.49 KB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
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2 [Evaluating architectures for multithreaded object request brokers](#)



Douglas C. Schmidt

October 1998 **Communications of the ACM**, Volume 41 Issue 10

Publisher: ACM Press

Full text available: [pdf\(202.09 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

3 [Customization of object request brokers by application specific policies](#)

Bo Nørregård Jørgensen, Eddy Truyen, Frank Matthijs, Wouter Joosen

April 2000 **IFIP/ACM International Conference on Distributed systems platforms**

Publisher: Springer-Verlag New York, Inc.

Full text available: [pdf\(160.32 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper presents an architectural framework for customizing Object Request Broker (ORB) implementations to application-specific preferences for various non-functional requirements. ORB implementations are built by reusing a domain-specific component-based architecture that offers support for one or more non-functional requirements. The domain-specific architecture provides the mechanism that allows the ORB to reconfigure its own implementation at run-time on the basis of application-specif ...

4 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available: [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based

on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

5 An object-based programming model for shared data




Gail E. Kaiser, Brent Hailpern

April 1992 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,

Volume 14 Issue 2

Publisher: ACM Press

Full text available:  pdf(3.28 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

The classical object model supports private data within objects and clean interfaces between objects, and by definition does not permit sharing of data among arbitrary objects. This is a problem for real-world applications, such as advanced financial services and integrated network management, where the same data logically belong to multiple objects and may be distributed over multiple nodes on the network. Rather than give up the advantages of encapsulated objects in modeling real-world en ...

Keywords: coordination language, daemons, financial applications, object-based, real-time, sharing


6 System support for object groups



Rachid Guerraoui, Pascal Felber, Benoît Garbinato, Karim Mazouni

October 1998 **ACM SIGPLAN Notices , Proceedings of the 13th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '98**, Volume 33 Issue 10

Publisher: ACM Press

Full text available:  pdf(2.12 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper draws several observations from our experiences in building support for object groups. These observations actually go beyond our experiences and may apply to many other developments of object based distributed systems. Our first experience aimed at building support for Smalltalk object replication using the Isis process group toolkit. It was quite easy to achieve group transparency but we were confronted with a strong mismatch between the rigidity of the process group model and the fle ...


7 Object orientation in multidatabase systems



Evaggelia Pitoura, Omran Bukhres, Ahmed Elmagarmid

June 1995 **ACM Computing Surveys (CSUR)**, Volume 27 Issue 2

Publisher: ACM Press

Full text available:  pdf(4.85 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A multidatabase system (MDBS) is a confederation of preexisting distributed, heterogeneous, and autonomous database systems. There has been a recent proliferation of research suggesting the application of object-oriented techniques to facilitate the complex task of designing and implementing MDBSs. Although this approach seems promising, the lack of a general framework impedes any further development. The goal of this paper is to provide a concrete analysis and categorization of the various ...

Keywords: distributed objects, federated databases, integration, multidatabases, views

8 A performance study of client-broker-server systems

Omotunde Adebayo, John Neilson, Dorina Petriu


November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available:  [pdf\(330.09 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


The role of broker in client-server systems is to accommodate flexible, open, heterogeneous system design and to facilitate fault tolerance and improved performance through load balancing. Some architectural design decisions, such as broker distribution and server replication, strongly affect the system performance. The paper presents alternative client-broker-server architectures and compares their performance by using a combination of measurements and simulation. Broker distribution is found t ...

9 Java and distributed object models: an analysis

 Marjan Hericko, Matjaz B. Juric, Ales Zivkovic, Ivan Rozman, Tomaz Domajnko, Marjan Krisper

December 1998 **ACM SIGPLAN Notices**, Volume 33 Issue 12


Publisher: ACM Press

Full text available:  [pdf\(871.07 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Java has an important role in building distributed object oriented web enabled applications. In the article an analysis of two distributed object models in context of Java language is presented. Several aspects of RMI and CORBA such as features, maturity, support for legacy systems, learning curve and ease of development are compared. A special emphasis is given to the performances. Different testing scenarios give a complete overview about real world performances of both architectures. Based on ...

Keywords: CORBA, Java, RMI, distributed objects, performances

10 Models and tools for generating digital libraries: Localizing experience of digital content via structural metadata

 Naomi Dushay

July 2002 **Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries**

Publisher: ACM Press

Full text available:  [pdf\(342.47 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

With the increasing technical sophistication of both information consumers and providers, there is increasing demand for more meaningful experiences of digital information. We present a framework that separates digital object experience, or rendering, from digital object storage and manipulation, so the rendering can be tailored to particular communities of users. Our framework also accommodates extensible digital object behaviors and interoperability. The two key components of our approach are ...

Keywords: information behavior, information intermediaries, interoperability, metadata, system architecture

11 The impact of object technology on commercial transaction processing

Edward E. Cobb

August 1997 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 6 Issue 3

Publisher: Springer-Verlag New York, Inc.

Full text available:  [pdf\(649.17 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Businesses today are searching for information solutions that enable them to compete in

the global marketplace. To minimize risk, these solutions must build on existing investments, permit the best technology to be applied to the problem, and be manageable. Object technology, with its promise of improved productivity and quality in application development, delivers these characteristics but, to date, its deployment in commercial business applications has been limited. One possible reason is the ...

Keywords: Objects, Workflow, transaction processing

12 Subject-oriented programming: a critique of pure objects



William Harrison, Harold Ossher

October 1993 **ACM SIGPLAN Notices , Proceedings of the eighth annual conference on Object-oriented programming systems, languages, and applications OOPSLA '93**, Volume 28 Issue 10

Publisher: ACM Press

Full text available:  [pdf\(2.26 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)


13 Concurrency and distribution in object-oriented programming



Jean-Pierre Briot, Rachid Guerraoui, Klaus-Peter Lohr

September 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(289.34 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper aims at discussing and classifying the various ways in which the object paradigm is used in concurrent and distributed contexts. We distinguish among the library approach, the integrative approach, and the reflective approach. The library approach applies object-oriented concepts, as they are, to structure concurrent and distributed systems through class libraries. The integrative approach consists of merging concepts such as obj ...

Keywords: concurrency, distribution, integration, libraries, message passing, object, reflection

14 CORBA: a platform for distributed object computing



Zhonghua Yang, Keith Duddy

April 1996 **ACM SIGOPS Operating Systems Review**, Volume 30 Issue 2

Publisher: ACM Press


Full text available:  [pdf\(1.68 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

15 InfoSleuth: agent-based semantic integration of information in open and dynamic environments



R. J. Bayardo, W. Bohrer, R. Brice, A. Cichocki, J. Fowler, A. Helal, V. Kashyap, T. Ksiezyk, G. Martin, M. Nodine, M. Rashid, M. Rusinkiewicz, R. Shea, C. Unnikrishnan, A. Unruh, D. Woelk
June 1997 **ACM SIGMOD Record , Proceedings of the 1997 ACM SIGMOD international conference on Management of data SIGMOD '97**, Volume 26 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(1.69 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The goal of the InfoSleuth project at MCC is to exploit and synthesize new technologies into a unified system that retrieves and processes information in an ever-changing

network of information sources. InfoSleuth has its roots in the Carnot project at MCC, which specialized in integrating heterogeneous information bases. However, recent emerging technologies such as internetworking and the World Wide Web have significantly expanded the types, availability, and volume of data available to a ...

16 From RS-232 to object request brokers: incremental object-oriented networking



projects

David Janzen

February 2001 **ACM SIGCSE Bulletin , Proceedings of the thirty-second SIGCSE technical symposium on Computer Science Education SIGCSE '01,**
Volume 33 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(44.80 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Selecting an appropriate set of laboratory experiences and projects for a Data Communications and Computer Networks course can be difficult due to the broad and deep nature of the topics. Emphasis may be placed on many networking aspects including design, evaluation, efficiency, security, protocols, tools, and applications. This paper presents a set of projects that attempt to integrate software engineering and systems administration topics. The projects emphasize network application programming ...


17 An associated object model for distributed systems



Zhao Hong, Wayne McCoy

September 1990 **ACM SIGOPS Operating Systems Review**, Volume 24 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(1.40 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

As ISDNs develop, distributed applications on these networks will increase in number, scope and complexity. The distributed application environment will become more and more complicated. Distributed applications are as varied as application environments, requiring cooperations between them in different ways and to different extents. We describe here a new model that is designed to support distributed applications, called the *Associated Object Model*. In this model, multi-objects can commun ...


18 A situated evaluation of the Object Management Group's (OMG) Object Management Architecture (OMA)



Evan Wallace, Kurt C. Wallnau

October 1996 **ACM SIGPLAN Notices , Proceedings of the 11th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '96**, Volume 31 Issue 10

Publisher: ACM Press

Full text available:  [pdf\(1.44 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

It has been difficult to objectively assess the real value or maturity of the Object Management Group's Object Management Architecture (OMA). While experience reports have appeared in the literature, these have focused more on the functionality of the end-system than on systematically exploring the strengths and weaknesses of the OMA, and providing practical guidelines on the effective use of the OMA for specific software-engineering problems. In this paper we describe a case study in the use of ...


19 A reliable object-oriented data repository for a distributed computer system



Liba Svobodova

December 1981 **Proceedings of the eighth ACM symposium on Operating systems principles**


Publisher: ACM Press

Full text available:  [pdf\(1.18 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The repository described in this paper is a component of a distributed data storage system for a network of many autonomous machines that might run diverse applications. The repository is a server machine that provides very large, very reliable long-term storage for both private and shared data objects. The repository can handle both very small and very large data objects, and it supports atomic update of groups of objects that might be distributed over several repositories. Each object is ...

Keywords: Atomic update, Crash recovery, Distributed data storage system, Memory management, Optical disk, Server, Stable storage

20 [Object lessons learned from a distributed system for remote building monitoring and operation](#)

 Frank Olken, Hans-Arno Jacobsen, Chuck McParland, Mary Ann Piette, Mary F. Anderson
October 1998 **ACM SIGPLAN Notices , Proceedings of the 13th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '98**, Volume 33 Issue 10

Publisher: ACM Press

Full text available:  [pdf\(1.54 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)





In this paper we describe our experiences with the design, the deployment, and the initial operation of a distributed system for the remote monitoring and operation of multiple heterogeneous commercial buildings across the Internet from a single control center. Such systems can significantly reduce building energy usage. Our system is distinguished by its ability to interface to multiple heterogeneous legacy building Energy Management Control Systems (EMCSs), its use of the Common Object Request ...

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